CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CEMENT/2016-17 Date: 08.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. C.N.S. Murthy,** No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.
*NAME OF THE WORK	:	Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
REFERENCE	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	06.09.2016
PERIOD OF TESTING	:	06.09.2016 to 08.09.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

VIDYARANI P.K.
Technical Manager

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/SAND-Gradation/2016-17 : 08.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES (MANUFACTURED SAND)

*** Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

*** Name of Work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.09.2016

Date of Testing : 08.09.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.70	90-100	90-100	90-100	95-100
2.36	82.50	60-95	75-100	85-100	95-100
1.18	60.00	30-70	55-90	75-100	90-100
600 Micron	28.50	15-34	35-59	60-79	80-100
300 Micron	10.00	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/AGG/GR/2016-17 : 08.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer**	: **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* **Agency**	: **Mr. C.N.S. Murthy,** No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.
* **Name of Work**	: Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
Reference	: EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 06.09.2016
Date of Testing	: 08.09.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.10	95-100	85-100
20	38.50	30-70	0-20
10	16.00	10-35	0-5
4.75	3.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/AGG/GR/2016-17 : 08.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block,
Basaveshwaranagar, Bangalore – 560 079.

*** Name of Work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 06.09.2016

Date of Testing : 08.09.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	95.70	95-100	85-100
10	33.20	25-55	0-20
4.75	3.80	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/CNSM/W.No.01/STEEL/2016-17 12.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C.N.S. Murthy,** No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.
Name of the Work	:	Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016
Date of Test	:	12.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Technical Reference	:	IS: 1786-2008

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			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	16	1.58	520	563	13.50	O.K	O.K

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Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	20	2.47	525	569	13.65	O.K	O.K

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Job No.: CTCE/BBMP/CNSM/W.No.01/STEEL/2016-17 12.09.2016

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Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	25	3.85	528	572	14.80	O.K	O.K

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 27.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Footing Concrete (South East Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 27.09.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.08.2016	27.09.2016	8.269	602.4	26.77
2	30.08.2016	27.09.2016	8.378	616.2	27.39
3	30.08.2016	27.09.2016	8.415	626.8	27.86

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 02.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - Ground Floor (South East Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 02.12.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.11.2016	02.12.2016	8.295	596.7	26.52
2	04.11.2016	02.12.2016	8.374	612.5	27.22
3	04.11.2016	02.12.2016	8.415	620.8	27.59

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 02.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - Ground Floor (South East Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 02.12.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.11.2016	02.12.2016	8.252	601.2	26.72
2	04.11.2016	02.12.2016	8.367	617.4	27.44
3	04.11.2016	02.12.2016	8.415	625.7	27.81

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 21.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - First Floor (South East Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 21.01.2017

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2016	21.01.2017	8.257	605.8	26.92
2	24.12.2016	21.01.2017	8.369	617.4	27.44
3	24.12.2016	21.01.2017	8.412	629.3	27.97

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 21.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - First Floor (South East Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 21.01.2017

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2016	21.01.2017	8.278	602.7	26.79
2	24.12.2016	21.01.2017	8.156	596.3	26.50
3	24.12.2016	21.01.2017	8.394	620.8	27.59

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 03.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - Second Floor (South East Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 03.03.2017

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2017	03.03.2017	8.295	606.8	26.97
2	03.02.2017	03.03.2017	8.374	614.7	27.32
3	03.02.2017	03.03.2017	8.458	620.3	27.57

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 03.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - Second Floor (South East Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 03.03.2017

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2017	03.03.2017	8.184	592.6	26.34
2	03.02.2017	03.03.2017	8.239	605.9	26.93
3	03.02.2017	03.03.2017	8.325	616.3	27.39

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 17.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Footing Concrete (North West Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 17.11.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2016	17.11.2016	8.365	613.5	27.27
2	20.10.2016	17.11.2016	8.254	606.9	26.97
3	20.10.2016	17.11.2016	8.169	600.5	26.69

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 04.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - Ground Floor (North West Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 04.01.2017

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.12.2016	04.01.2017	8.115	605.3	26.90
2	07.12.2016	04.01.2017	8.239	622.3	27.66
3	07.12.2016	04.01.2017	8.380	632.2	28.10

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Job No.: CTCE/BBMP/CNSM/W.No.01/CSR-09/136p/CUBE/2016-17 25.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.

***Agency** : **Mr. C.N.S. Murthy,**
No.12, Srimatha, 3rd Cross, SVC, NSS layout, 3rd Stage, 4th Block, Basaveshwaranagar, Bangalore – 560 079.

***Name of the work** : Construction of Additional Class rooms, toilet and Auditorium and Providing office accessories to Yelahanka Government Degree College, Yelahanka Bangalore in Ward No.01, BBMP, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/20/2016-17 Dated: 01.09.2016

***Sample ID** : Roof Concrete - First Floor (North West Toilet)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 25.01.2017

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2016	25.01.2017	8.115	605.3	26.90
2	28.12.2016	25.01.2017	8.239	622.3	27.66
3	28.12.2016	25.01.2017	8.380	625.6	27.80

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